

**Abstract of disclosure**

A method of testing an electric circuit and an arrangement for implementing the method are provided. The arrangement includes a current source connected to a network of electric components, the current source for  
5 supplying current to at least one current path of the network, the network being characterized with a predefined network configuration; a measurement unit connected to the network, the measurement unit for measuring effective values of node voltages in at least two nodes of the at least one current path, a node representing an equipotential point of adjacent electric components; and a  
10 processing unit connected to the measurement unit, the processing unit for deriving a characterizing value of at least one electric component of the network by using the effective value of current, the effective values of the node voltages, and the predefined network configuration.